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(71) Applicant (for all designated States except US): **REPAK BEHEER B.V.** [NL/NL]; 18, Phileas Foggstraat 18, NL-7821 AK Emmen (NL).

(72) Inventor: **SCHOLTE, Gerardus, Petrus**; Boslaan 7, NL-9561 LH Ter Apel (NL).

(74) Agent: **KLOOSTER, Ir., J., H.**; Muller & Eilbracht B.V., P.O. Box 1080, NL-2260 BB Leidschendam (NL).

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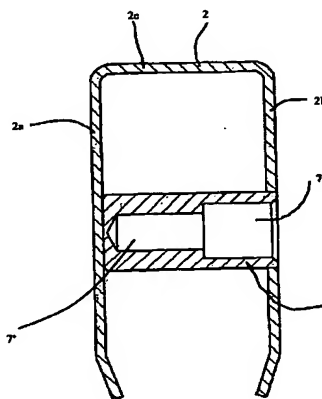
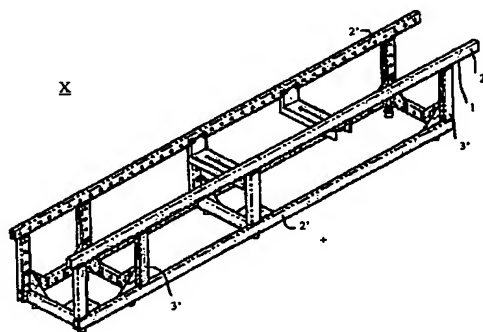
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(54) Title: **MULTIFUNCTIONAL CONSTRUCTIONAL MODULAR ELEMENT FOR THE CONSTRUCTION OF A PACKAGING MACHINE FRAME**



(57) Abstract: The invention relates to a machine frame (1) for a packaging machine being constructed in such a way that its manufacture is simple and flexible for the various widths and lengths of foil packaging material without having the need for an expensive and labour intensive intercoupling. This machine frame is also robust and interiorly good cleanable, so that hygienic risks may be substantially decreased. This machine-building element comprises a profile element (2) made of strong sheet material, like e.g. metal or plastic material, comprising a mainly straight horizontal part (2c) that tapers off on both sides over an angle of approximately 90° to two downwardly directed vertical parts (2a, 2b). These parts are longitudinally interconnected completely to a compact unit by means of a plurality of hollow functional sockets (7). These functional sockets are each provided with internal threading (7') to receive an appropriate coupling element or module to be used in a machine construction, like e.g. an adapter socket. Frame girders (2') as well as frame stands (3') for a packaging machine may be constructed from these multifunctional constructional modular elements for machine-building purposes. This results in a machine frame construction which is very flexible, robust and interiorly well cleanable.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 31 31 955 A (WILLACH GMBH GEB) 10 March 1983 (1983-03-10) page 10, line 31 - page 12, line 3 figures 1,3-7	1,4
A		2,3
X	US 5 426 919 A (NATTERER JOHANN ET AL) 27 June 1995 (1995-06-27) figures 1,2a,3,6a column 1, line 59 - column 3, line 6	1,5,6
X	FR 1 386 323 A (VALLOUREC) 22 January 1965 (1965-01-22) page 1, right-hand column, line 3 - line 33 figures 1,5a,8	1,4
A		2,3
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☒ Patent family members are listed in annex.

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8 document member of the same patent family

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Das Neves, N

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 92 16 764 U (HORST WITTE ENTWICKLUNGS- UND VERTRIEBS KG) 11 March 1993 (1993-03-11) the whole document	1
A	US 1 867 226 A (JAMES MARTIN) 12 July 1932 (1932-07-12) the whole document	

INTERNATIONAL SEARCH REPORT

Information on patent family members

Original Application No

VL2004/000199

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3131955	A	10-03-1983	DE 3131955 A1	10-03-1983
US 5426919	A	27-06-1995	DE 4216149 A1	18-11-1993
			DE 59301075 D1	18-01-1996
			EP 0569935 A1	18-11-1993
			ES 2083792 T3	16-04-1996
			JP 3465027 B2	10-11-2003
			JP 6056121 A	01-03-1994
FR 1386323	A	22-01-1965	NONE	
DE 9216764	U	11-03-1993	DE 9216764 U1	11-03-1993
US 1867226	A	12-07-1932	NONE	